TITLE: EMBEDDED ACCESS INFORMATION FOR DIGITAL VERSA-ILE DISC (DVD) INDEPENDENT OF DVD PLAYER SOFTWARE

INVENTOR: FREDDIE GEIER ET AL. APPLICATION SERIAL NO: 09/755,627

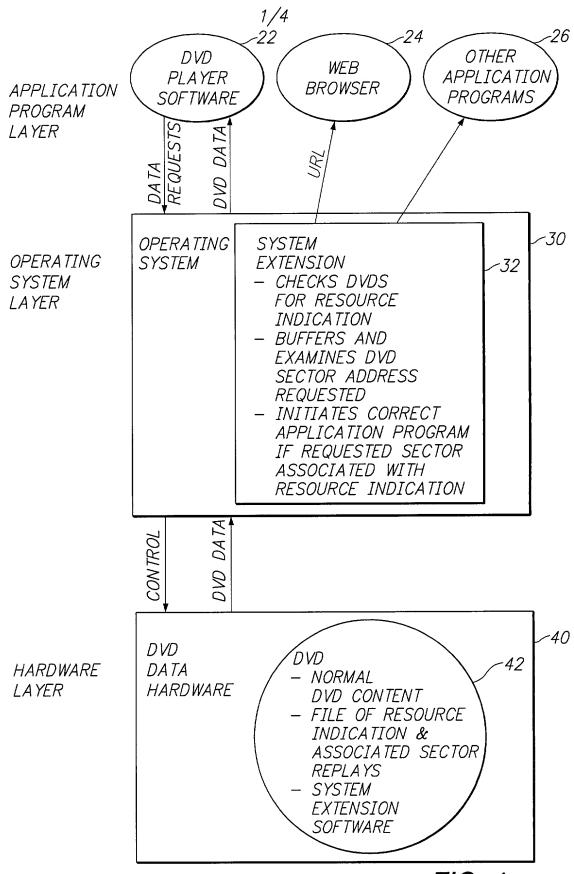


FIG. 1

INVENTOR: FREDDIE GEIER ET AL. APPLICATION SERIAL NO: 09/755,627 2/4 LOAD OPERATING SYSTEM EXTENSION 50 SOFTWARE INTO THE OPERATING SYSTEM PUT DVD INTO DVD PLAYER HARDWARE WHILE DVD OPERATING SYSTEM **PLAYER** EXTENSION READS SOFTWARE 54 TEXT PORTIONS OF **OPERATES** DVD TO OBTAIN RESOURCE INDICATIONS & ASSOCIATED SECTOR REGIONS 56 RESOURCE **INDICATIONS** IN DVD? 58 YES SYSTEM EXTENSION OPERATING SYSTEM EXTENSION EXAMINES SOFTWARE DORMANT REQUESTED SECTORS FROM HARDWARE 60 62 SECTOR *ADDRESS* YES CORRESPONDS TO 64 RANGE ASSOCIATED *WITH RESOURCE INDICATION?* LAUNCH APPLICATION PROGRAM (i.e. BROWSER) NO AND PROVIDE RESOURCE INDICATION TO APPLICATION PROGRAM FIG. 2

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APPLN. FILING DATE: JANUARY 4, 2001 TITLE: EMBEDDED ACCESS INFORMATION FOR DIGITAL VERSA-ILE DISC (DVD) INDEPENDENT OF DVD PLAYER SOFTWARE **INVENTOR:** FREDDIE GEIER ET AL. APPLICATION SERIAL No: 09/755,627 3/4 OBTAIN CONTENTS OF TEXT EMBEDDED IN INFORMATION PART OF DVD (VIDEO_TS.IFO) DECODE RESOURCE INDICATIONS & ALLOCATED MENU OR VIDEO SELECTIONS USE MENU SELECTIONS TO OBTAIN ASSOCIATED SECTOR ADDRESS REGION PRODUCE TABLE OF RESOURCE INDICATIONS & ASSOCIATED DVD SECTOR **ADDRESSES** WHILE DVD PLAYING, BUFFER SECTOR ADDRESS REQUESTS TO DVD HARDWARE PERIODICALLY, EXAMINE ADDRESSES IN BUFFER FOR ADDRESSES WITHIN SECTOR RANGES ASSOCIATED WITH RESOURCE INDICATION IN TABLE YES MATCH? LAUNCH APPLICATION NO PROGRAM; PROVIDE RESOURCE INDICATION TO APPLICATION CLEAR BUFFER PROGRAM

FIG. 3

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ENCODED LIST

(FROM VIDEO_TS.IFO

FILE ON DVD)

DECODED LIST

RESOURCE INDICATION
WWW.COMPANY.COM/.../INFO.HTML
WWW.COMPANY.COM/.../DATA.HTML

MENU INDICATION

MEDIA 1, CHAPTER 1

MEDIA 5, CHAPTER 6

TABLE

RESOURCE INDICATION

WWW.COMPANY.COM/.../INFO.HTML WWW.COMPANY.COM/.../DATA.HTML SECTOR RANGE 5000-6500 10,000-10,050

BUFFER OF REQUESTED SECTORS

MATCH WITH SECTOR
ASSOCIATED WITH RESOURCE INDICATION
"WWW.COMPANY.COM/.../INFO.HTML"

LAUNCH BROWSER AND PROVIDE URL

FIG. 4